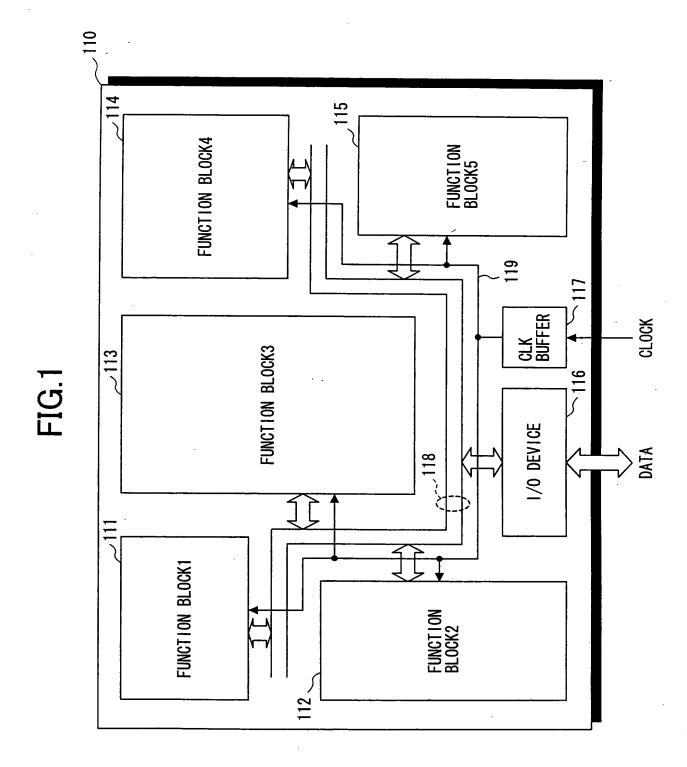
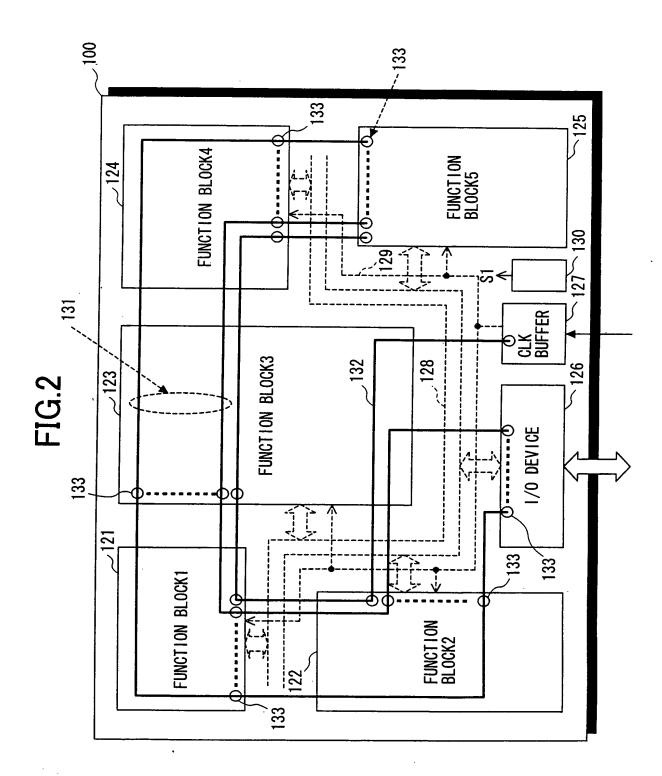
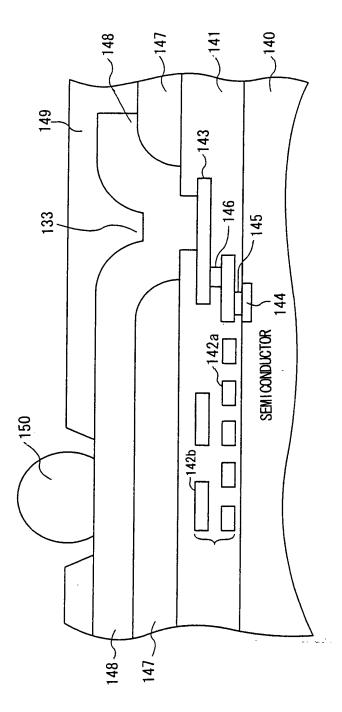
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

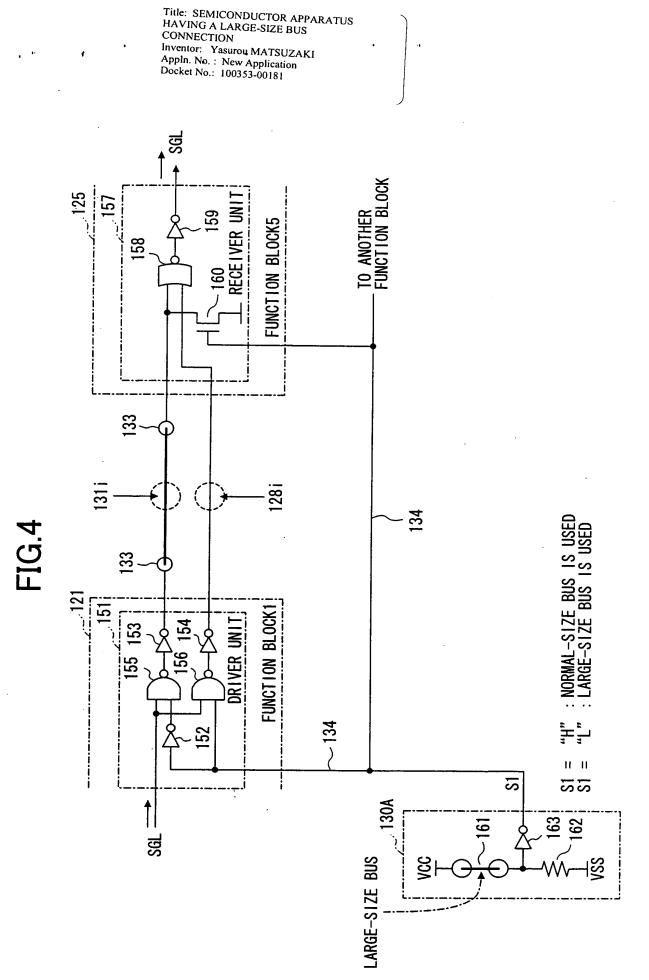


Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

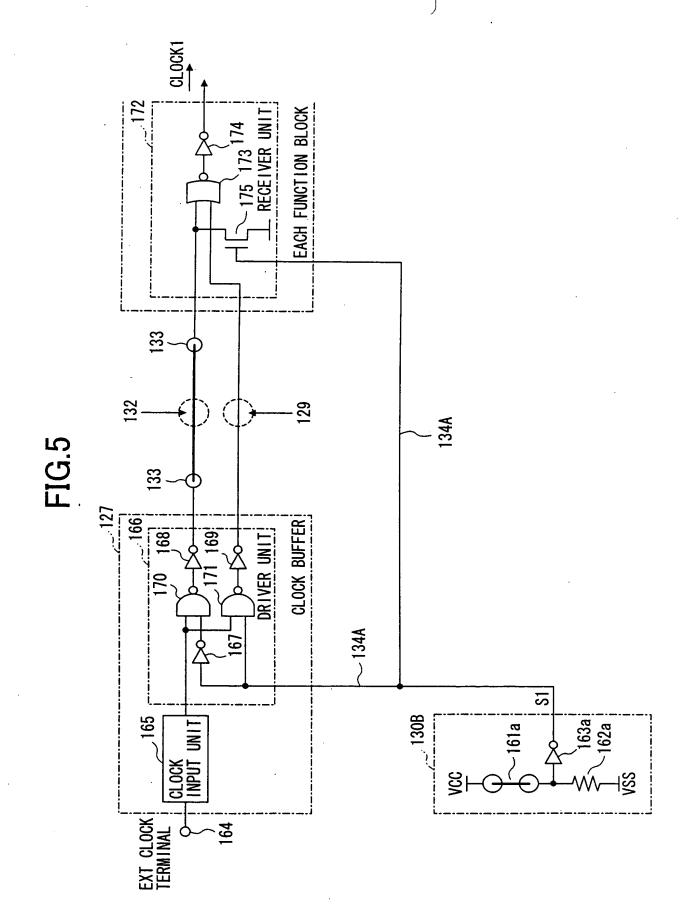


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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181





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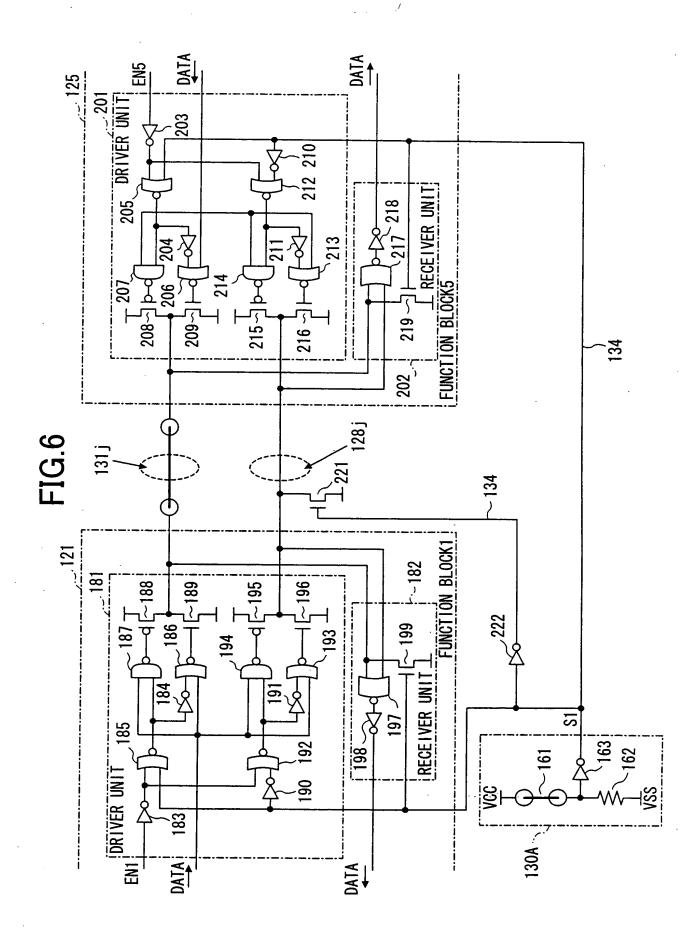
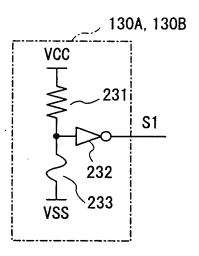
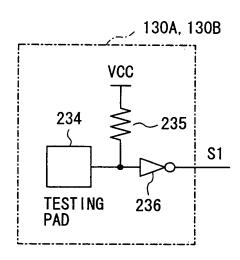
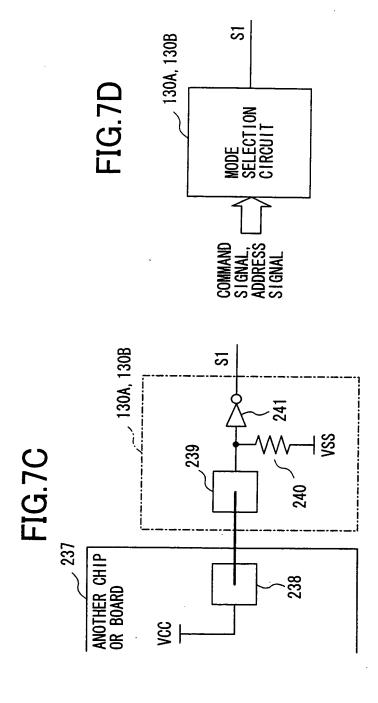


FIG.7A

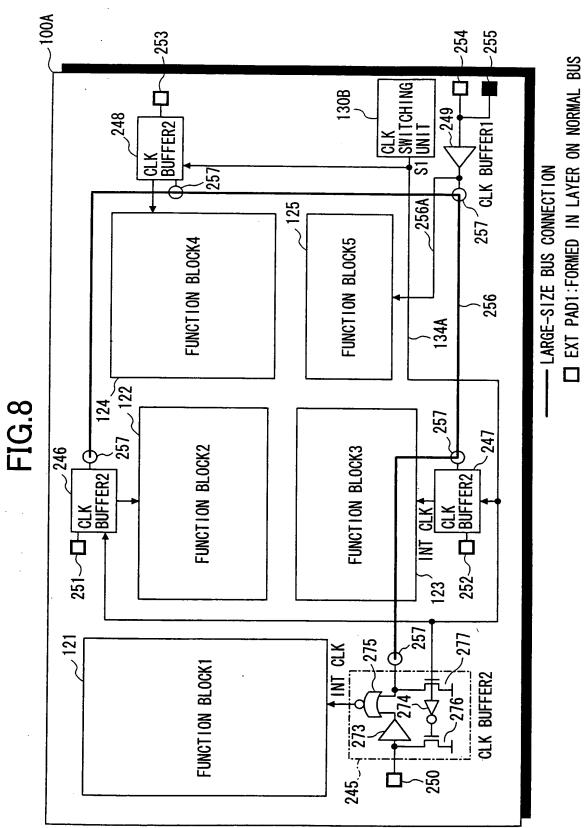
FIG.7B





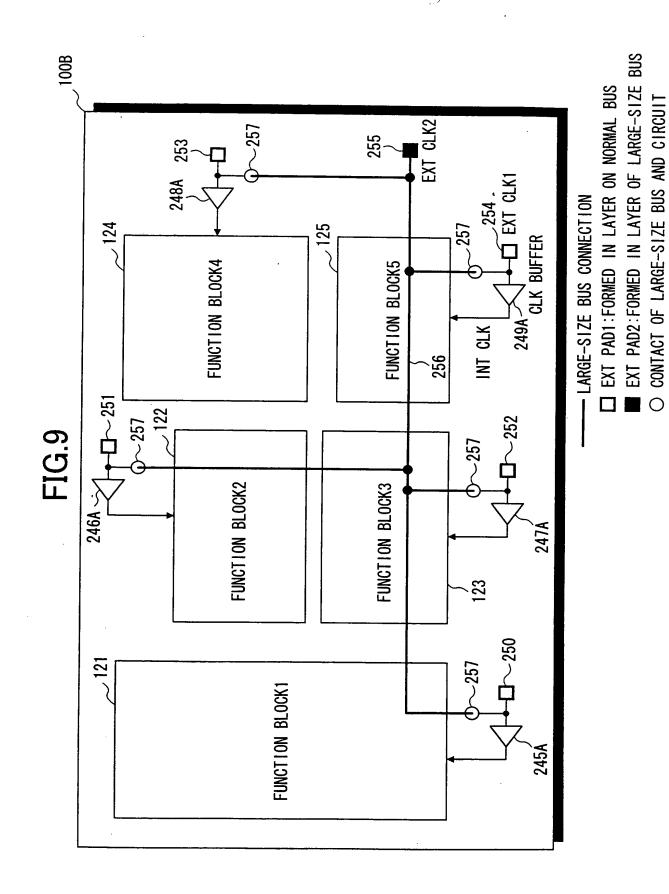


CONNECTION

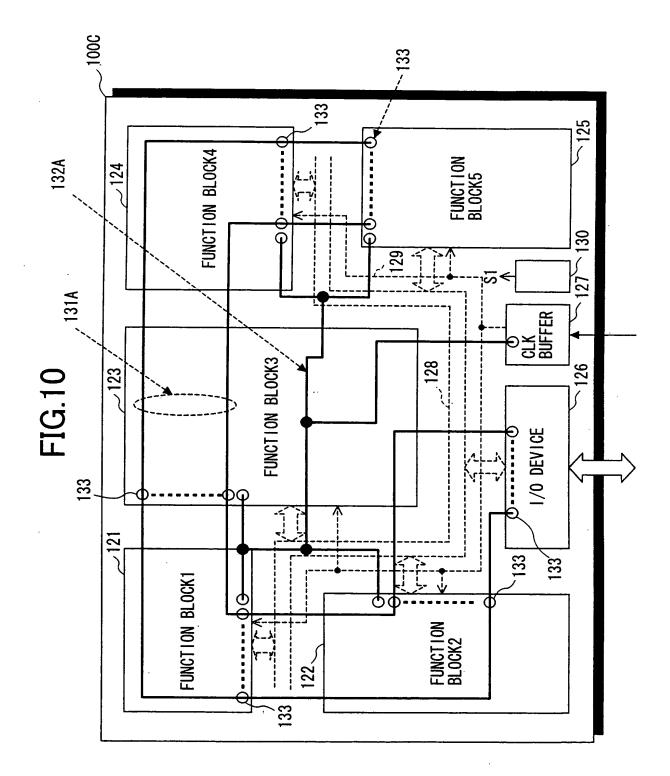


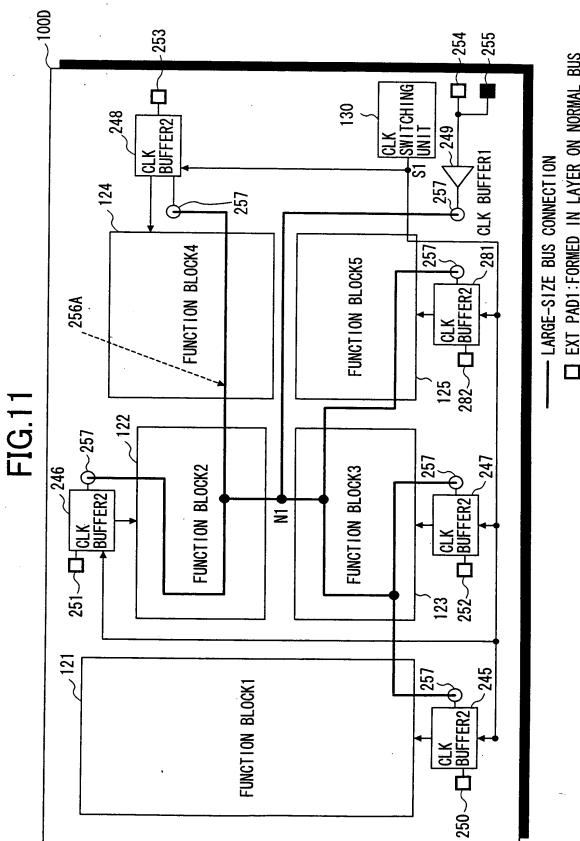
■ EXT PAD2:FORMED IN LAYER OF LARGE-SIZE BUS OCUTACT OF LARGE-SIZE BUS AND CIRCUIT

Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



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Inventor: Yasurou, MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

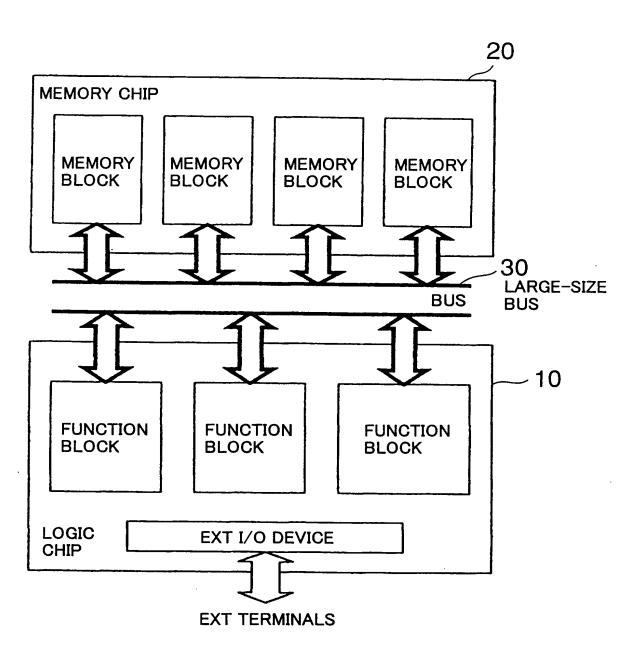


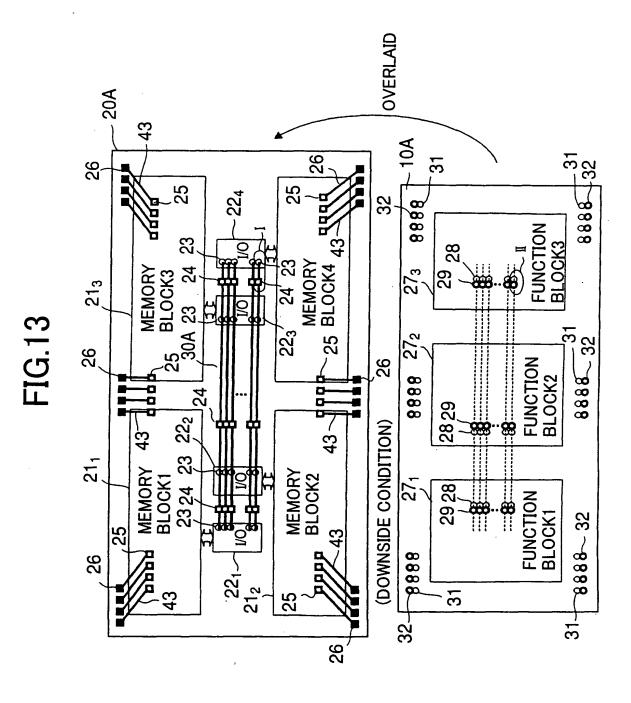


EXT PAD2: FORMED IN LAYER OF LARGE-SIZE BUS EXT PAD1: FORMED IN LAYER ON NORMAL BUS ■ EXI PAUZ: FURMED IN LATER UF LARGE—3141 ○ CONTACT OF LARGE—SIZE BUS AND CIRCUIT

CONNECTION

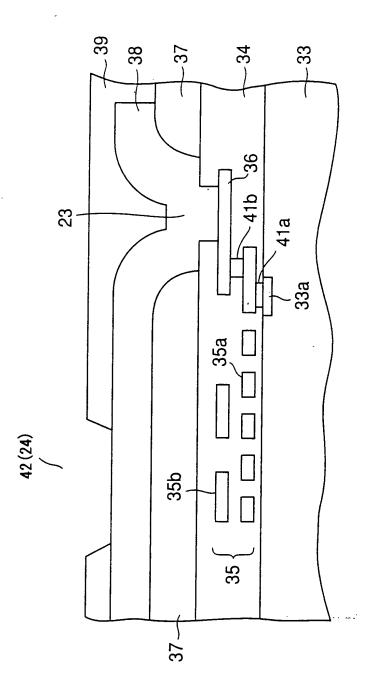
FIG.12



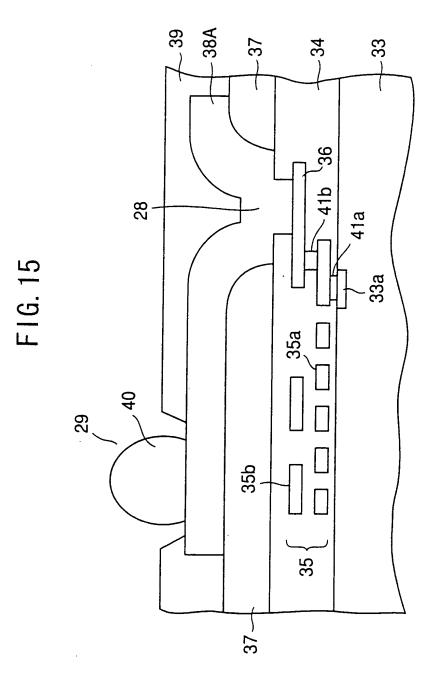


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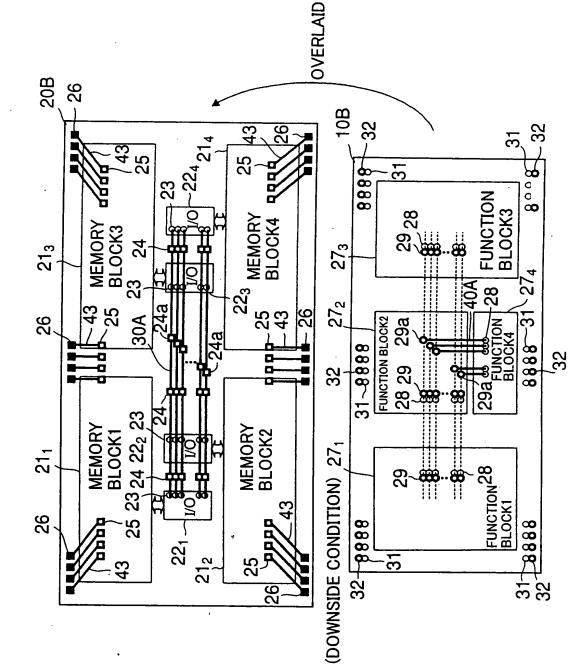
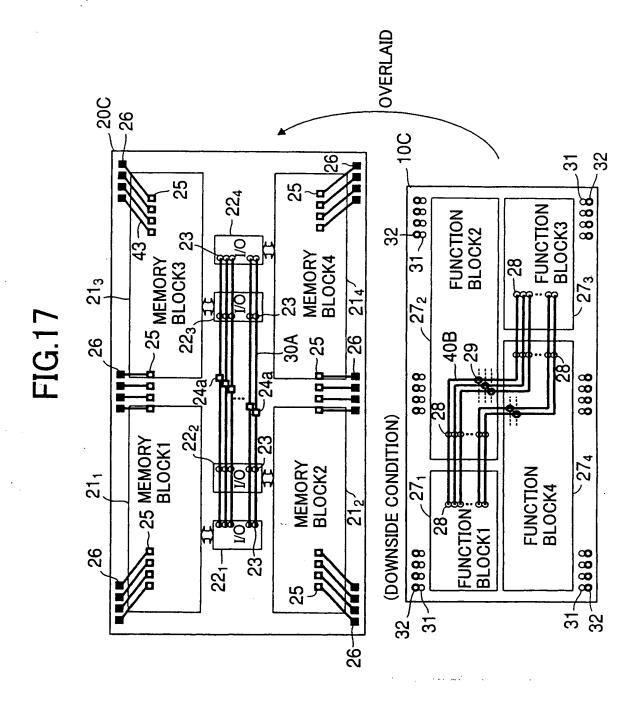
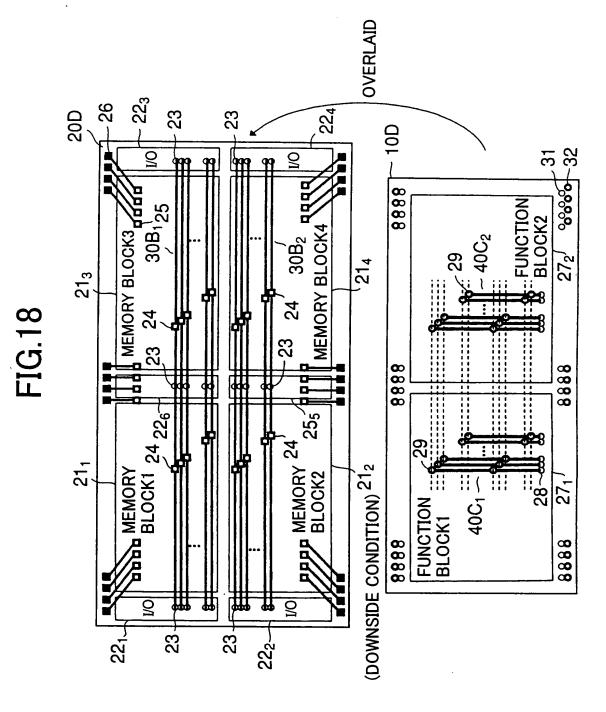


FIG.16

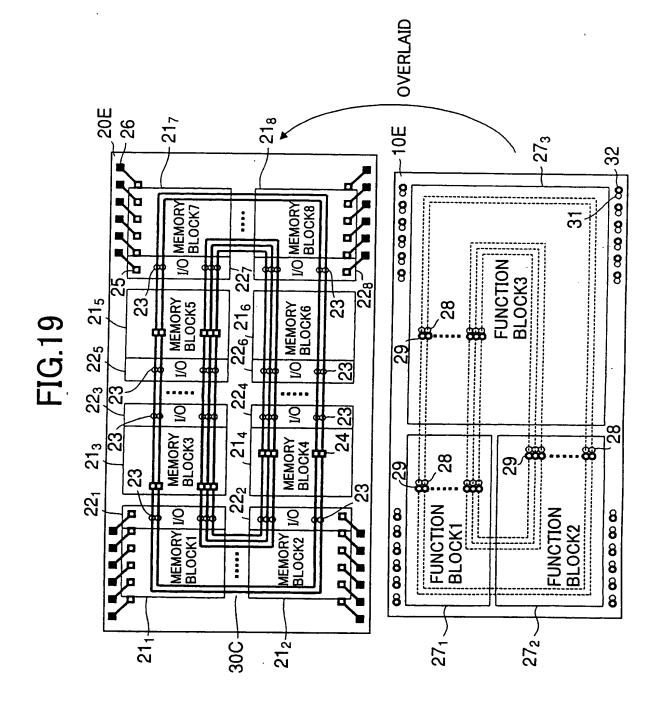
CONNECTION

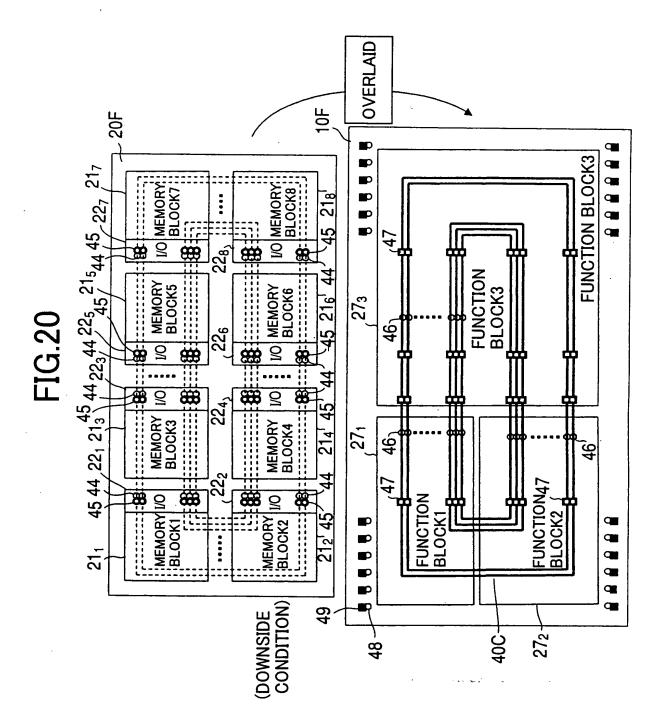


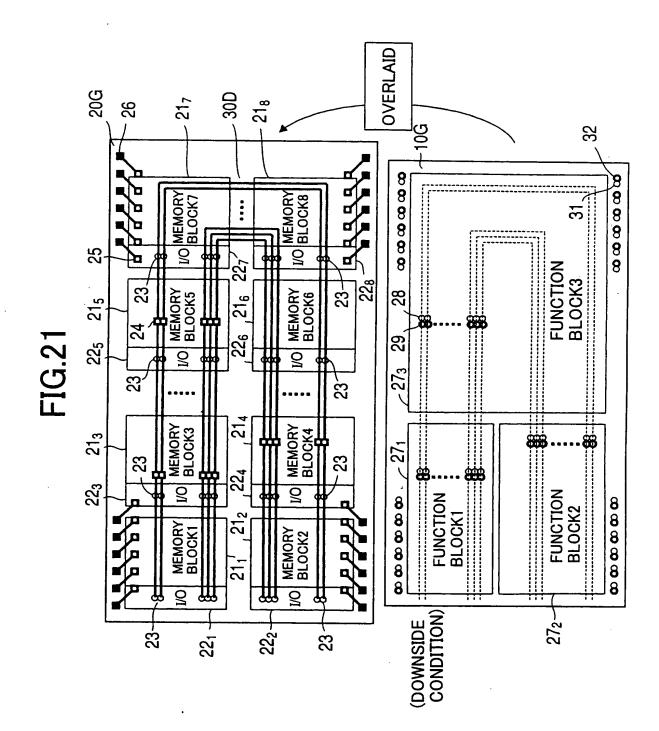
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor; Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



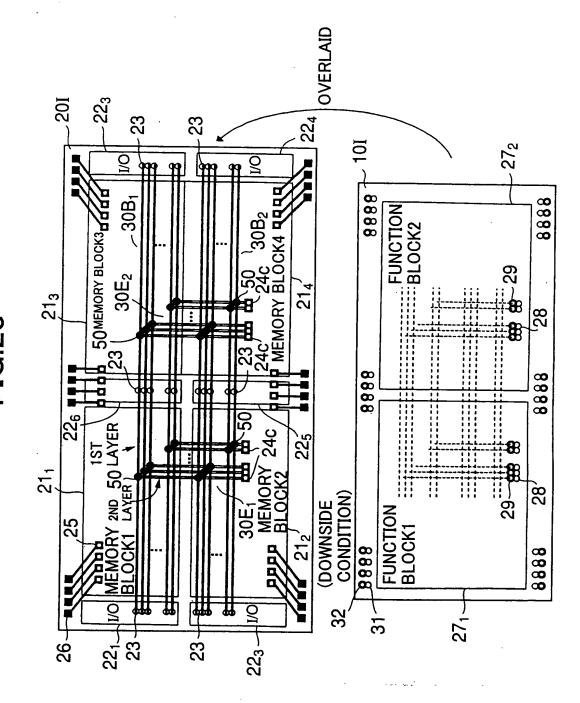
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



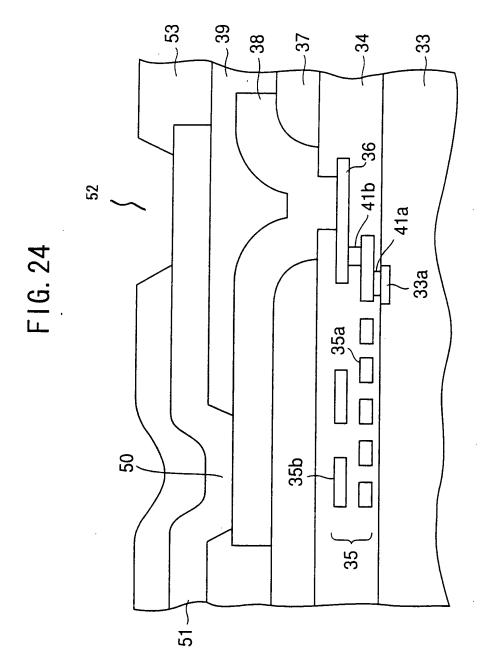




OVERLAID 30D MEMORY BLOCK7 I/O BLOCK8 EMORY 23-215 MEMORY BLOCK6 MEMORY BLOCK5 21₆ FIG.22 22523 213 MEMORY BLOCK3 214 MEMORY BLOCK4 33 223 2 **FUNCTION** 888888 **29**b 88888 MEMORY BLOCK1 I/O MEMORY BLOCK2 32 – 29b -23 23



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Inventor: Yasurou MATSUZAKI Appln. No. Y. New Application Docket No.: 100353-00181



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Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

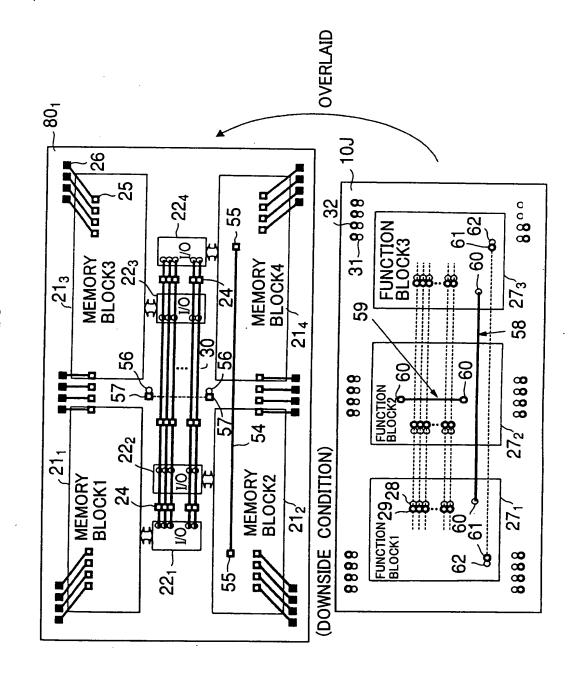
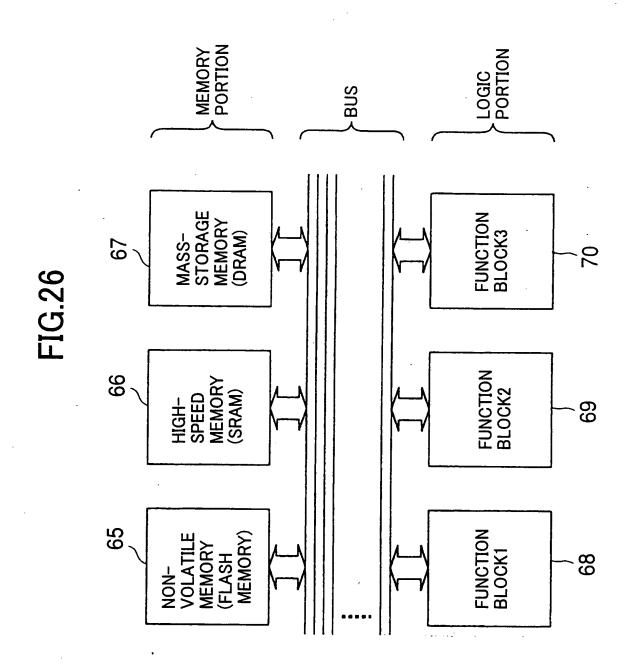
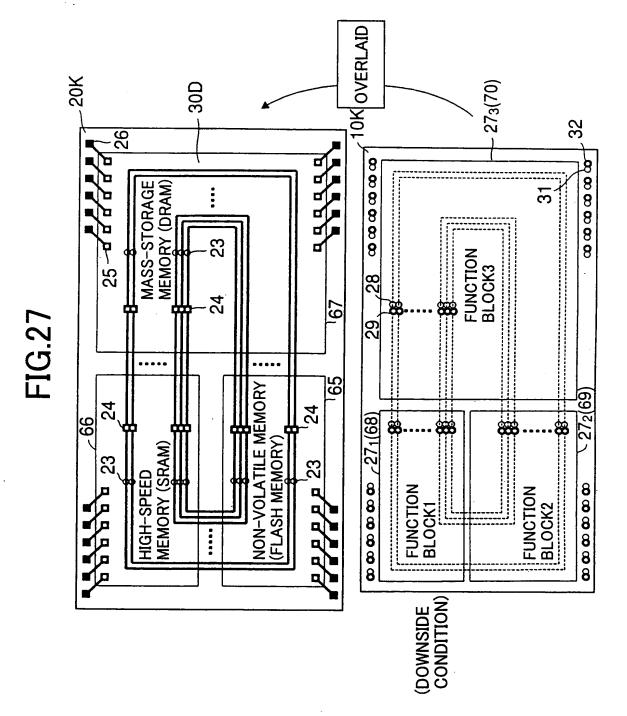


FIG.25

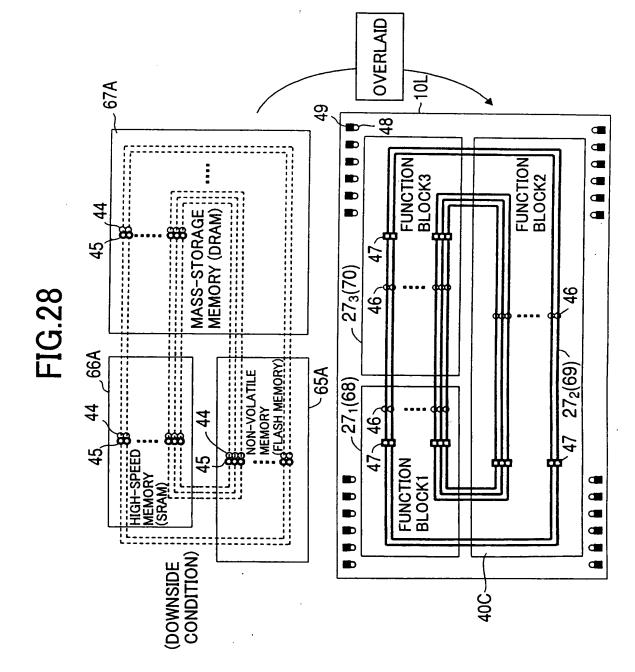
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION
Inventor: Yasurou MATSUZAKI Appln. 'No.: New Application Docket No.: 100353-00181



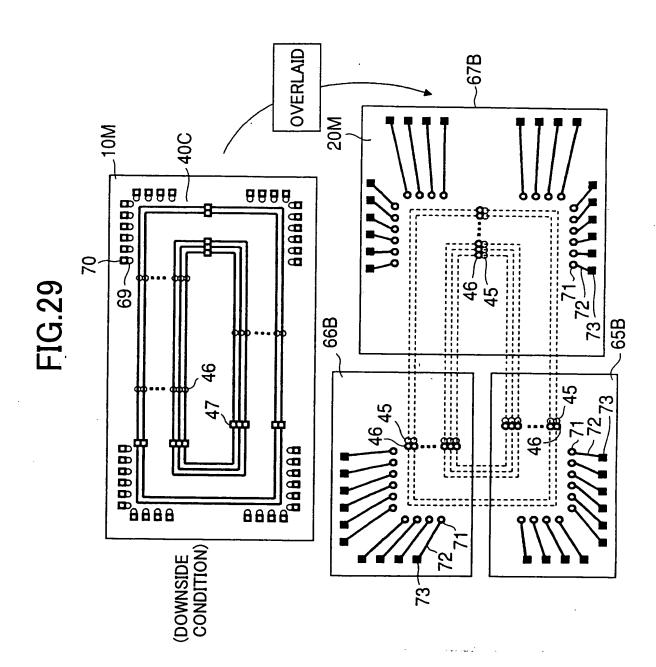
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181



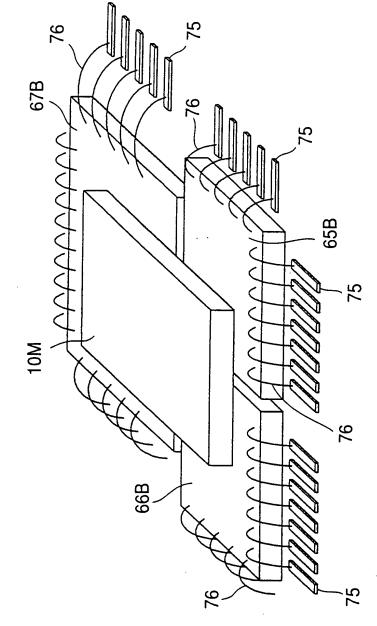
Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

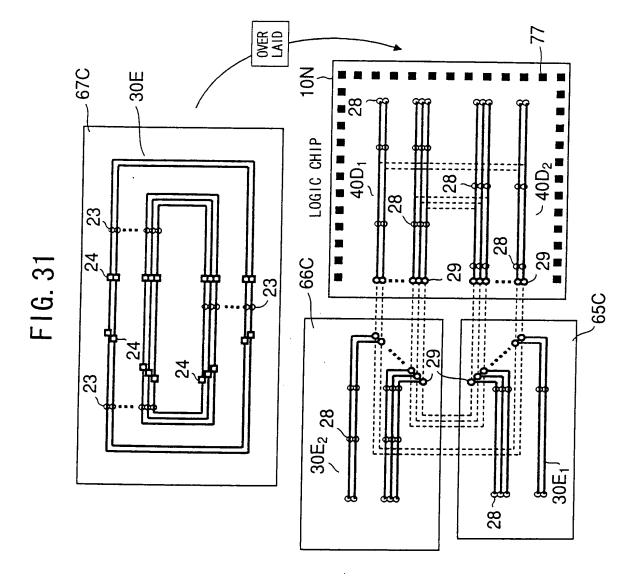


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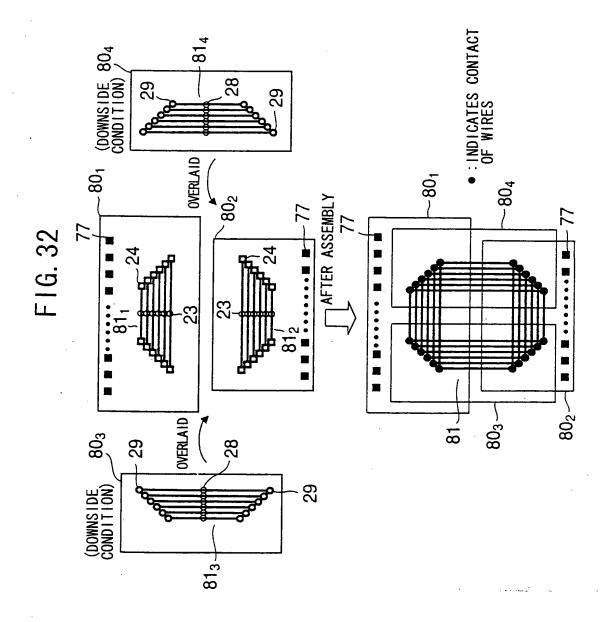


Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket'No.: 100353-00181

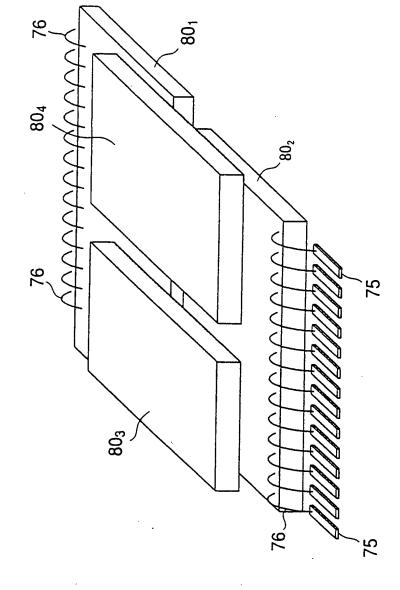




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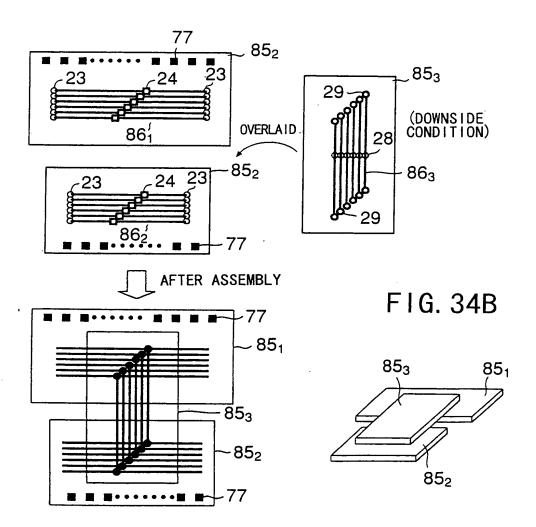


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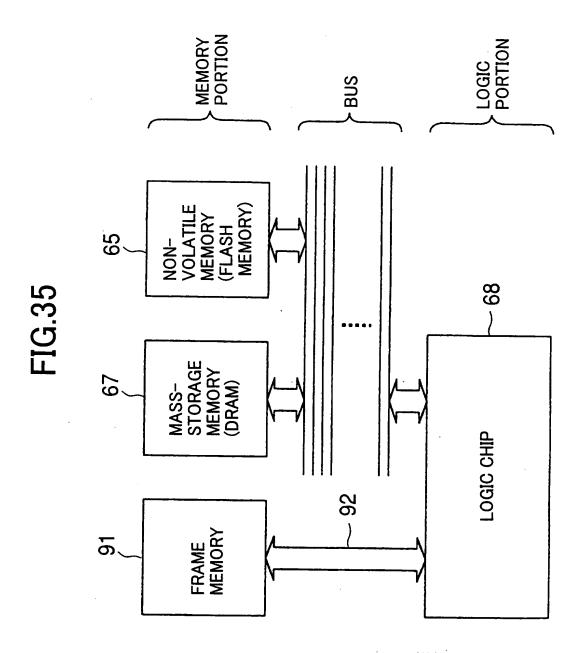


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Inventor; Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

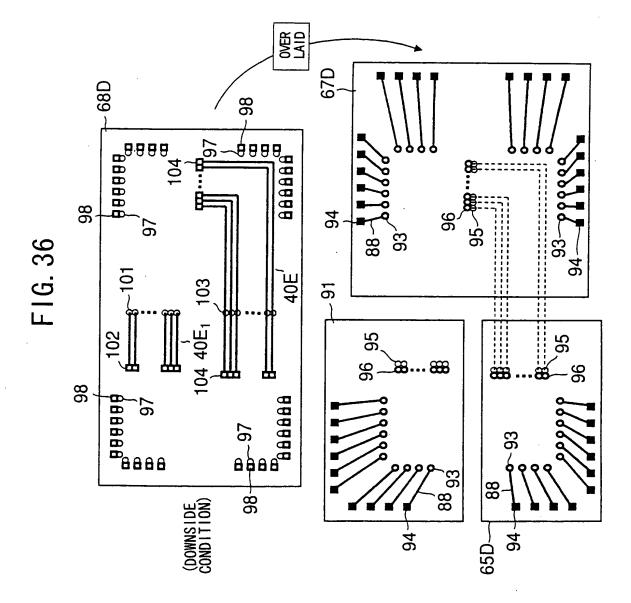
FIG. 34A



Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI Appln. No.: New Application Docket No.: 100353-00181

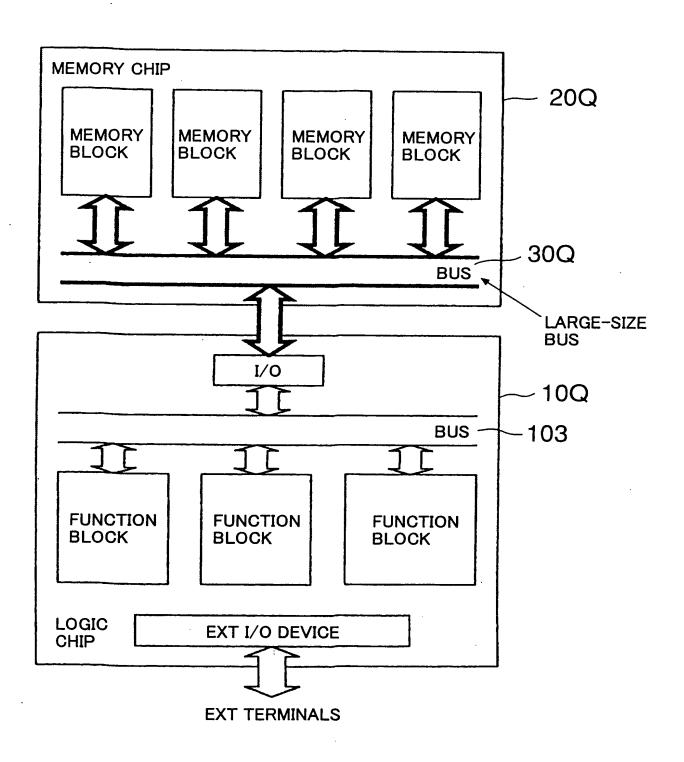


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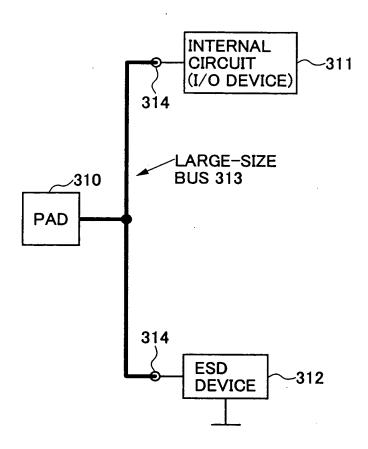
CONNECTION

FIG.37



Title: SEMICONDUCTOR APPARATUS HAVING A LARGE-SIZE BUS CONNECTION Inventor: Yasurou MATSUZAKI

FIG.38

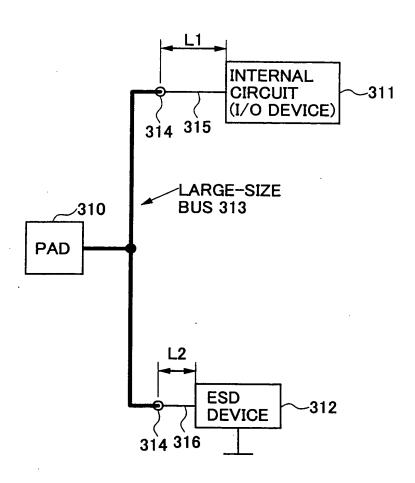


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SEM I CONDUCTOR

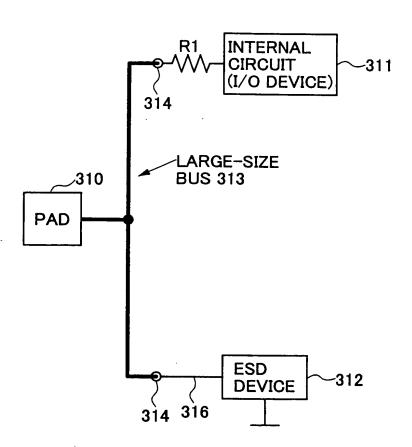
 \sim 321

FIG.40



CONNECTION

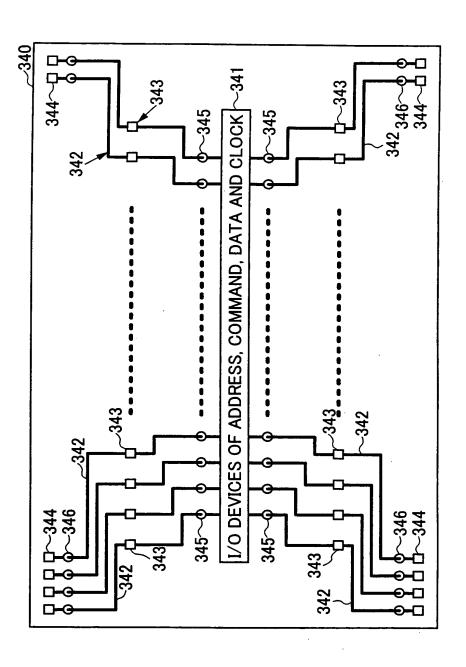
FIG.41



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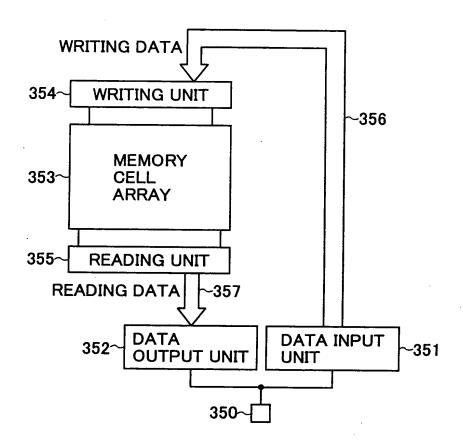
Appln. No.: New Application Docket No.: 100353-00181





CONNECTION

FIG.43



CONNECTION

FIG.44A

FIG.44B

